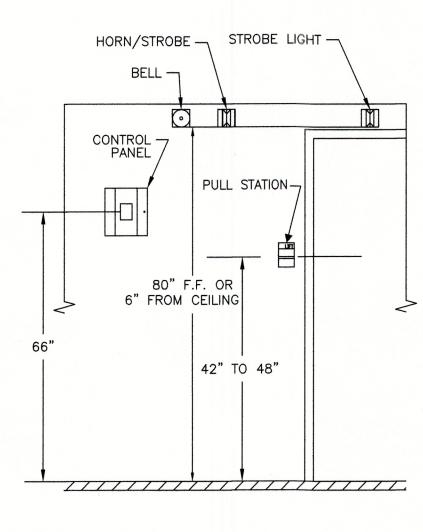
## Bishop School Arlington, MA



## Fire Alarm Upgrades

## Special Notes

- 1. All existing electromagnetic door holder to remain operational.
- 2. Substitute dual or single monitor modules as required.
- 3. Exact location of device(s) to be determined by installing contractor.4. Furnish and install new device as per alt/add provision.
- 5. All attic devices to be included.



## DEVICE ELEVATION DETAIL

- 1. THE ELECTRICAL CONTRACTOR SHALL COMPLETE A CERTIFICATE CERTIFYING THAT THE SYSTEM HAS BEEN 100 PERCENT TESTED AND FUNCTIONS IN COMPLETE COMPLIANCE WITH THE SYSTEM SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS. THE CERTIFICATE SHALL BE SIGNED BY THE INSTALLER, ELECTRICAL CONTRACTOR AND THE OWNER. AFTER RECEIPT OF THE CERTIFICATION, THE FIRE PREVENTION OFFICER AND/OR THE FIRE ALARM SUPERVISOR WILL CONDUCT AN INSPECTION IN THE COMPANY OF THE INSTALLER AND A REPRESENTATIVE OF THE OWNER WITHIN SCOPE OF WORK.
- 2. ALL FIRE ALARM VISUAL DEVICES SHALL BE SYNCHRONIZED.
- 3. ALL WIRING METHODS SHALL BE AS APPROVED BY THE WIRING INSPECTOR AND THE FIRE DEPARTMENT.
- 4. ALL SYSTEM COMPONENTS SHALL BE UL LISTED FOR THEIR INTENDED PURPOSE.
- 5. ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NFPA 72, AND ALL STATE AND LOCAL CODES.
- 6. ALL WIRING SHALL BE CLASS A.
- 7. THE ELECTRICAL CONTRACTOR MUST OBTAIN AN ELECTRICAL PERMIT FROM THE ARLINGTON BUILDING DEPARTMENT AND A PERMIT FROM THE FIRE DEPARTMENT PRIOR TO COMMENCEMENT OF EQUIPMENT INSTALLATION. A FLOOR PLAN SHOWING ALL ALARM DEVICES, PANELS AND ONE—LINE WIRING DIAGRAM WILL BE REQUIRED TO BE SUBMITTED BEFORE THE FIRE DEPARTMENT ISSUES A PERMIT.
- 8. INSTALLATION OF EQUIPMENT SHALL BE IN ACCORDANCE WITH CURRENT STANDARDS AND SPECIFICATIONS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- 9. ALL FIRE ALARM EQUIPMENT, INSTALLATION AND OPERATION SHALL BE IN CONFORMANCE WITH THE LOCAL FIRE DEPARTMENT INSTALLATION REQUIREMENTS AND SYSTEM INSTALLATION GUIDELINES.
- 10. ALL EQUIPMENT SHOWN ON DRAWINGS IS DIAGRAMMATIC.
- 11. THE FIRE ALARM SYSTEM SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY BOTH THE ENGINEER AND THE LOCAL FIRE DEPARTMENT. THE SHOP DRAWINGS MUST BE SIGNED OFF BY THE LOCAL FIRE DEPARTMENT AND ENGINEER PRIOR TO ORDERING AND INSTALLATION OF EQUIPMENT.
- 12. ALL JOINTS AND CONNECTIONS SHALL BE IN JUNCTION BOXES. ALL CONNECTIONS NOT ON APPROVED TERMINAL STRIPS SHALL BE SOLDERED AND TAPED. ALL JUNCTION BOXES SHALL BE PAINTED RED.
- 13. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THAT ALL CONNECTING WIRING MAINTAIN ELECTRICAL INTEGRITY, WITH NO OPEN CIRCUITS, GROUNDS, LEAKAGE OR OTHER FAULTS. CONNECTION TO THE MUNICIPAL SYSTEM WILL NOT BE PERMITTED IF ANY FAULTS EXIST, AND THE CONTRACTOR HAS THE PERMANENT RESPONSIBILITY FOR THE MAINTENANCE OF ALL SUCH WIRING FOR A ONE—YEAR PERIOD. IF FAULTS DEVELOP AFTER INSTALLATION, CORRECTION MUST BE MADE BY THE CONTRACTOR FOR A PERIOD OF TWO YEARS AFTER THE DATE OF FINAL COMPLETION.
- 14. ALL EQUIPMENT SHALL BE MADE AVAILABLE FOR TEST AND INSPECTION WHEN REQUIRED BY THE LOCAL FIRE DEPARTMENT.
- 15. ALL EQUIPMENT USED SHALL BE OF A TYPE APPROVED BY THE FIRE CHIEF THROUGH THE ALARM SUPERINTENDENT AND THE FIRE PREVENTION OFFICER.
- 16. ALL SYSTEMS SHALL BE DC, SUPERVISED, BATTERY STANDBY FIRE ALARM SYSTEM. A SEPARATE AC CIRCUIT MUST BE PROVIDED FOR THE FIRE ALARM SYSTEM. STANDBY BATTERIES AND THE CHARGING SYSTEM SHALL BE SUPERVISED.
- 17. THE BATTERIES USED WITH THE FIRE ALARM CONTROL PANEL SHALL BE CAPABLE OF OPERATING THE PANEL FOR TWENTY—FOUR (24) HOURS WITH A FIVE (5) MINUTE RING—DOWN AT THE END OF THE TWENTY—FOUR (24) HOUR PERIOD. THE CALCULATION USED TO DETERMINE BATTERY CAPACITY SHALL BE PRESENTED TO THE FIRE DEPARTMENT AT THE TIME OF INSPECTION. PROVIDE BATTERY CALCULATIONS WITH SHOP DRAWINGS.

UPON ACTIVATION OF ANY FIRE ALARM DEVICE, THE CONTROL PANEL SHALL SOUND THE EVACUATION SIGNALS, FLASH THE EVACUATION LIGHTS, INDICATE THE ZONE OF ACTIVATION AT THE PANEL AND ACTIVATE MUNICIPAL MASTER BOX.

18. ALL CLOSEOUT DOCUMENTS ARE REQUIRED UPON COMPLETION INCLUDING NFPA RECORD OF INSPECTION, NFPA RECORD OF COMPLETION, AS—BUILT DRAWINGS, POINT TO POINT WIRING DIAGRAM AND ANY OTHER DOCUMENTS THAT MAY BE REQUIRED BY THE AHJ. FAILURE TO FURNISH ANY AND ALL DOCUMENTS COULD RESULT IN THE CONSTRUCTION CONTROL SIGN OFF DOCUMENTATION TO BE WITHELD.REFER TO ALL REQUIREMENTS OF NFPA—72.

WARNING:
IT IS A VIOLATION OF THE LAW
TO ALTER ANY ITEM IN ANY
WAY UNLESS ACTING UNDER
THE DIRECTION OF A
PROFESSIONAL ENGINEER WHO
SEALS THE DRAWING
IDENTIFYING SUCH ALTERATIONS

DO NOT USE FOR
CONSTRUCTION UNLESS SEALED
AND MARKED "FOR
CONSTRUCTION". ALL PIPING,
HANGERS AND EQUIPMENT IS
SHOWN DIAGRAMMATICALLY. THE
ACTUAL ROUTING OF PIPING
AND EXACT LOCATIONS OF
HANGERS AND EQUIPMENT
SHALL BE DETERMINED IN THE
FIELD AND INSTALLED IN
ACCORDANCE WITH ALL THE
APPLICABLE CODES. ANY
CHANGES TO THE DESIGN
SHALL BE APPROVED IN
WRITING BY THE ENGINEER OF
RECORD.

THE INFORMATION SHOWN ON THIS DRAWING IS BASED UPON BUILDING PLANS AND LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION ON THE DRAWINGS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES PRIOR TO INSTALLATION.



PROFESSIONAL ENGINEERING SEAL:

OFFICIAL SEAL:
SHALL BE "WET" STAMPED AND
SIGNED IN BLUE INK. ANY
COPY OF THIS DRAWING SHALL
NOT CONSIDERED ACCURATE
AND SHALL NOT BE USED FOR
ANY PURPOSE

THIS DRAWING, DESIGN, AND DATA CONTAINED THEREIN IS THE EXCLUSIVE PROPERTY OF CORNELIUSEN CONSULTING INC AND IS NOT TO BE DISTRIBUTED TO OR USED BY OTHERS WITHOUT THE EXPRESSED WRITTEN CONSENT OF CORNELIUSEN CONSULTING

PREPARED FOR:

PREPARED BY:
CORNELIUSEN
CONSULTING

IN CONJUNCTION WITH:

Fire Alarm
Replacement
Bishop Elementary
Town of Arlington

ADDRESS: 25 Columbia Street
Arlington, MA

DRAWN: JHB

CHECKED: JPC

FILE:

DATE: August 22, 2022

SCALE: AS NOTED

 $\Box$   $\Lambda$  1

PAGE 1 OF 4 REV 1.2A



WARNING:
IT IS A VIOLATION OF THE LAW
TO ALTER ANY ITEM IN ANY
WAY UNLESS ACTING UNDER
THE DIRECTION OF A
PROFESSIONAL ENGINEER WHO
SEALS THE DRAWING
IDENTIFYING SUCH ALTERATIONS

DO NOT USE FOR CONSTRUCTION UNLESS SEALED AND MARKED "FOR CONSTRUCTION". ALL PIPING, HANGERS AND EQUIPMENT IS SHOWN DIAGRAMMATICALLY. THE ACTUAL ROUTING OF PIPING AND EXACT LOCATIONS OF HANGERS AND EQUIPMENT SHALL BE DETERMINED IN THE FIELD AND INSTALLED IN ACCORDANCE WITH ALL THE APPLICABLE CODES. ANY CHANGES TO THE DESIGN SHALL BE APPROVED IN WRITING BY THE ENGINEER OF RECORD.

THE INFORMATION SHOWN ON THIS DRAWING IS BASED UPON BUILDING PLANS AND LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION ON THE DRAWINGS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES PRIOR TO INSTALLATION.



PROFESSIONAL ENGINEERING SEAL:

OFFICIAL SEAL:
SHALL BE "WET" STAMPED AND
SIGNED IN BLUE INK. ANY
COPY OF THIS DRAWING SHALL
NOT CONSIDERED ACCURATE
AND SHALL NOT BE USED FOR
ANY PURPOSE

THIS DRAWING, DESIGN, AND DATA CONTAINED THEREIN IS THE EXCLUSIVE PROPERTY OF CORNELIUSEN CONSULTING INC AND IS NOT TO BE DISTRIBUTED TO OR USED BY OTHERS WITHOUT THE EXPRESSED WRITTEN CONSENT OF CORNELIUSEN CONSULTING INC.

PREPARED FOR:

PREPARED BY:
CORNELIUSEN
CONSULTING
INC.

IN CONJUNCTION WITH:

PROJECT:
Fire Alarm
Replacement
Bishop Elementary
Town of Arlington

ADDRESS: 25 Columbia Street Arlington, MA

DRAWN: JHB

CHECKED: JPC

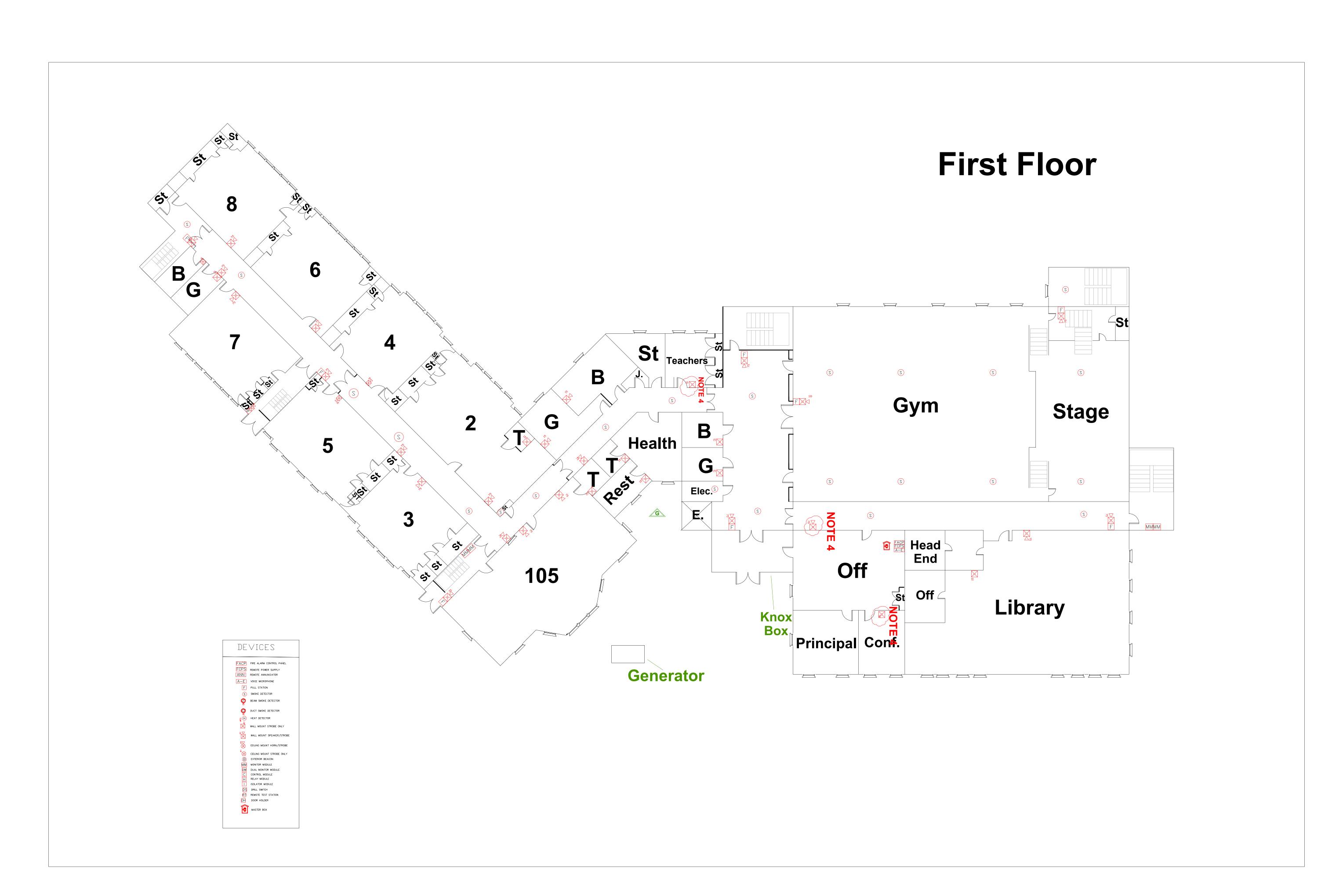
FILE:

DATE: August 22, 2022

SCALE: AS NOTED

**FA-2** 

PAGE 2 OF 4 REV 1.2A



WARNING:
IT IS A VIOLATION OF THE LAW
TO ALTER ANY ITEM IN ANY
WAY UNLESS ACTING UNDER
THE DIRECTION OF A
PROFESSIONAL ENGINEER WHO
SEALS THE DRAWING
IDENTIFYING SUCH ALTERATIONS

DO NOT USE FOR
CONSTRUCTION UNLESS SEALED
AND MARKED "FOR
CONSTRUCTION". ALL PIPING,
HANGERS AND EQUIPMENT IS
SHOWN DIAGRAMMATICALLY. THE
ACTUAL ROUTING OF PIPING
AND EXACT LOCATIONS OF
HANGERS AND EQUIPMENT
SHALL BE DETERMINED IN THE
FIELD AND INSTALLED IN
ACCORDANCE WITH ALL THE
APPLICABLE CODES. ANY
CHANGES TO THE DESIGN
SHALL BE APPROVED IN
WRITING BY THE ENGINEER OF
RECORD.

THE INFORMATION SHOWN ON THIS DRAWING IS BASED UPON BUILDING PLANS AND LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION ON THE DRAWINGS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES PRIOR TO INSTALLATION.



PROFESSIONAL ENGINEERING SEAL:

OFFICIAL SEAL:
SHALL BE "WET" STAMPED AND
SIGNED IN BLUE INK. ANY
COPY OF THIS DRAWING SHALL
NOT CONSIDERED ACCURATE
AND SHALL NOT BE USED FOR
ANY PURPOSE

THIS DRAWING, DESIGN, AND DATA CONTAINED THEREIN IS THE EXCLUSIVE PROPERTY OF CORNELIUSEN CONSULTING INC AND IS NOT TO BE DISTRIBUTED TO OR USED BY OTHERS WITHOUT THE EXPRESSED WRITTEN CONSENT OF CORNELIUSEN CONSULTING INC

PREPARED FOR:

PREPARED BY:

CORNELIUSEN CONSULTING INC.

IN CONJUNCTION WITH:

PROJECT:
Fire Alarm
Replacement
Bishop Elementary
Town of Arlington

ADDRESS: 25 Columbia Street
Arlington, MA

DRAWN: JHB

CHECKED: JPC

FILE:

DATE: August 22, 2022

SCALE: AS NOTED

FA-3

PAGE 3 OF 4 REV 1.2A



WARNING:
IT IS A VIOLATION OF THE LAW
TO ALTER ANY ITEM IN ANY
WAY UNLESS ACTING UNDER
THE DIRECTION OF A
PROFESSIONAL ENGINEER WHO
SEALS THE DRAWING
IDENTIFYING SUCH ALTERATIONS

DO NOT USE FOR
CONSTRUCTION UNLESS SEALED
AND MARKED "FOR
CONSTRUCTION". ALL PIPING,
HANGERS AND EQUIPMENT IS
SHOWN DIAGRAMMATICALLY. THE
ACTUAL ROUTING OF PIPING
AND EXACT LOCATIONS OF
HANGERS AND EQUIPMENT
SHALL BE DETERMINED IN THE
FIELD AND INSTALLED IN
ACCORDANCE WITH ALL THE
APPLICABLE CODES. ANY
CHANGES TO THE DESIGN
SHALL BE APPROVED IN
WRITING BY THE ENGINEER OF
RECORD.

THE INFORMATION SHOWN ON THIS DRAWING IS BASED UPON BUILDING PLANS AND LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL FIELD VERIFY THE INFORMATION ON THE DRAWINGS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES PRIOR TO INSTALLATION.



PROFESSIONAL ENGINEERING SEAL:

OFFICIAL SEAL:
SHALL BE "WET" STAMPED AND
SIGNED IN BLUE INK. ANY
COPY OF THIS DRAWING SHALL
NOT CONSIDERED ACCURATE
AND SHALL NOT BE USED FOR
ANY PURPOSE

THIS DRAWING, DESIGN, AND DATA CONTAINED THEREIN IS THE EXCLUSIVE PROPERTY OF CORNELIUSEN CONSULTING INC AND IS NOT TO BE DISTRIBUTED TO OR USED BY OTHERS WITHOUT THE EXPRESSED WRITTEN CONSENT OF CORNELIUSEN CONSULTING INC

PREPARED FOR:

PREPARED BY:
CORNELIUSEN
CONSULTING
INC.

IN CONJUNCTION WITH:

PROJECT:
Fire Alarm
Replacement
Bishop Elementary
Town of Arlington

ADDRESS: 25 Columbia Street Arlington, MA

DRAWN: JHB

CHECKED: JPC

DATE: August 22, 2022

SCALE: AS NOTED

FA-4

PAGE 4 OF 4 REV 1.2A